RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/574,625
Source: IFW P
Date Processed by STIC: 4/13/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/574,625 CRF Edit Date: 4/13/06
Edited by: JV

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

✓ Deleted: / invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

_____

___ Moved responses to same line as heading/numeric identifier, specifically:

_____

___ Other:

_____
_____
_____

Revised 09/09/2003

IFWP

RAW SEQUENCE LISTING DATE: 04/13/2006
PATENT APPLICATION: **US/10/574,625** TIME: 20:17:08

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF4\04132006\J574625.raw**

```
      3 <110> APPLICANT: Hoff, Tine
      5 <120> TITLE OF INVENTION: A Method of Screening For Protein Secreting Recombinant Host
      6       Cells
      8 <130> FILE REFERENCE: 10355.204-US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/574,625
C--> 10 <141> CURRENT FILING DATE: 2006-04-04
     10 <160> NUMBER OF SEQ ID NOS: 11
     12 <170> SOFTWARE: PatentIn version 3.3
     14 <210> SEQ ID NO: 1
     15 <211> LENGTH: 2349
     16 <212> TYPE: DNA
     17 <213> ORGANISM: Bacillus subtilis
     20 <220> FEATURE:
W--> 21 <221> NAME/KEY: YkdA_protein
     22 <222> LOCATION: (1000)..(2349)
     23 <223> OTHER INFORMATION: 1-999 is promoter
     25 <220> FEATURE:
     26 <221> NAME/KEY: CDS
     27 <222> LOCATION: (1000)..(2349)
     29 <400> SEQUENCE: 1
     30 tctttcaagg attcatgttt gtttaccaac ctgttctgta agcagttcat attttctcag     60
     32 ggttctttca aatacctcat caaaaacgtc cggcacagag gcgtgtatca cctcagctcc    120
     34 ctctcccgtt attccgcctt tggttgcaac acgttccagc gtctcctcga aagacatatt    180
     36 tttttcgatc agcatcttgc cagttccgta tagcgaatga atcagaaaat caaaggcttc    240
     38 ttctttggac aggctgctgt ttctgacggc agacagtgcc agttcttcaa agattgcagc    300
     40 tatgaatccc ggtgccgagc tcgttaaatt gctggccaca tctaaattcg attctttgat    360
     42 ttcccgtaca cggctgaaaa ccgataacaa ttcattcaga cgttcttttt tctctgcagc    420
     44 cagtgcttca ctgtgaacga caagtgagat gccggcttct gcttcggacg taatggcagg    480
     46 aataacacgt gagataccgg cttctgtttc tgcctccaaa agacgcagcg gcacaccggc    540
     48 agctatggat acgatgtgag tatttctgtt cacatacggg tacagacggc gcattgtttc    600
     50 gatgacatgg agtggcggga cgcatatcaa aatcaattgg cacgtatttg cccaattctc    660
     52 caacggatca gccgatacgt ttggataatc tgacatgagt gcccgcagcc gctccccctt    720
     54 cgttctcgtc tcaataaata gctcattctc ttttatttgt tcatgtttca acagctgtct    780
     56 agcgatcata tccgccatgc tgccatatcc aatcaatcca atctgttcca tcgactcagt    840
     58 cctttcatat acaatatgaa gtgtaccgtt ttccgcactt tttcacaatt tcccataatc    900
     60 ttttcatttt tatcccacag tttttgttta tgataaactc aagtcataaa cctatcaata    960
     62 taaatagaca tgtgaaaata gagaaacgga gtgaacatg atg gat aac tat cgt      1014
     63                                          Met Asp Asn Tyr Arg
     64                                          1               5
     66 gat gaa aac aga acg aaa ggt aat gag aat gag gtc ttt tta acg aaa     1062
     67 Asp Glu Asn Arg Thr Lys Gly Asn Glu Asn Glu Val Phe Leu Thr Lys
     68                 10                  15                  20
     70 gag aac gat cag agc gcc tcc tac tcg gcc cgc aat gtc att cat gat     1110
```

RAW SEQUENCE LISTING DATE: 04/13/2006
PATENT APPLICATION: US/10/574,625 TIME: 20:17:08

Input Set : A:\PTO.txt
Output Set: N:\CRF4\04132006\J574625.raw

```
71 Glu Asn Asp Gln Ser Ala Ser Tyr Ser Ala Arg Asn Val Ile His Asp
72             25                  30                  35
74 cag gag aag aaa aaa cga gga ttc gga tgg ttc aga ccg ttg ctt ggc     1158
75 Gln Glu Lys Lys Lys Arg Gly Phe Gly Trp Phe Arg Pro Leu Leu Gly
76         40                  45                  50
78 gga gtg atc ggc ggc agt ctt gct ctt ggc att tac acg ttt aca ccg     1206
79 Gly Val Ile Gly Gly Ser Leu Ala Leu Gly Ile Tyr Thr Phe Thr Pro
80     55                  60                  65
82 ctt ggt aac cat gat tct cag gac act gca aaa caa tca tcc agc cag     1254
83 Leu Gly Asn His Asp Ser Gln Asp Thr Ala Lys Gln Ser Ser Ser Gln
84 70                  75                  80                  85
86 cag caa acg caa tct gtt aca gca aca agc acc tcc tct gaa tct aaa     1302
87 Gln Gln Thr Gln Ser Val Thr Ala Thr Ser Thr Ser Ser Glu Ser Lys
88                 90                  95                 100
90 aaa agc tca agc agc tca tct gca ttc aag agc gag gac tct tct aaa     1350
91 Lys Ser Ser Ser Ser Ser Ser Ala Phe Lys Ser Glu Asp Ser Ser Lys
92             105                 110                 115
94 atc tca gat atg gta gaa gac ctt tca cca gcg att gtc ggt att aca     1398
95 Ile Ser Asp Met Val Glu Asp Leu Ser Pro Ala Ile Val Gly Ile Thr
96         120                 125                 130
98 aat ctt cag gca caa tca aac agc tct ttg ttc ggc tct agt tct tct     1446
99 Asn Leu Gln Ala Gln Ser Asn Ser Ser Leu Phe Gly Ser Ser Ser Ser
100     135                 140                 145
102 gat tcc agc gaa gat aca gaa agc ggt tca ggg tca ggt gtc att ttc     1494
103 Asp Ser Ser Glu Asp Thr Glu Ser Gly Ser Gly Ser Gly Val Ile Phe
104 150                 155                 160                 165
106 aaa aaa gag aat ggc aag gct tat atc att aca aat aac cac gtc gta     1542
107 Lys Lys Glu Asn Gly Lys Ala Tyr Ile Ile Thr Asn Asn His Val Val
108                 170                 175                 180
110 gaa ggg gca tca tca ctg aag gta tct tta tat gac ggc act gag gtt     1590
111 Glu Gly Ala Ser Ser Leu Lys Val Ser Leu Tyr Asp Gly Thr Glu Val
112             185                 190                 195
114 act gca aag ctg gta ggc agt gac tcg tta act gat tta gcc gtc ctc     1638
115 Thr Ala Lys Leu Val Gly Ser Asp Ser Leu Thr Asp Leu Ala Val Leu
116         200                 205                 210
118 caa atc agt gat gac cac gtc aca aaa gtg gca aac ttc ggt gat tca     1686
119 Gln Ile Ser Asp Asp His Val Thr Lys Val Ala Asn Phe Gly Asp Ser
120     215                 220                 225
122 tct gat ctt aga aca ggc gag acc gtt att gcg att ggg gat ccg ctt     1734
123 Ser Asp Leu Arg Thr Gly Glu Thr Val Ile Ala Ile Gly Asp Pro Leu
124 230                 235                 240                 245
126 gga aaa gac ctg tcc cgc aca gta aca caa gga att gta agc ggc gtg     1782
127 Gly Lys Asp Leu Ser Arg Thr Val Thr Gln Gly Ile Val Ser Gly Val
128                 250                 255                 260
130 gac aga acg gtt tca atg tct aca tca gcc ggc gaa acg agc att aac     1830
131 Asp Arg Thr Val Ser Met Ser Thr Ser Ala Gly Glu Thr Ser Ile Asn
132             265                 270                 275
134 gtc att cag aca gac gca gca att aat cca ggt aac agc ggc ggt cct     1878
135 Val Ile Gln Thr Asp Ala Ala Ile Asn Pro Gly Asn Ser Gly Gly Pro
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RAW SEQUENCE LISTING DATE: 04/13/2006
PATENT APPLICATION: US/10/574,625 TIME: 20:17:08

Input Set : A:\PTO.txt
Output Set: N:\CRF4\04132006\J574625.raw

```
136         280                 285                 290
138 ttg tta aat aca gac ggc aaa att gtc ggc att aac agt atg aaa atc     1926
139 Leu Leu Asn Thr Asp Gly Lys Ile Val Gly Ile Asn Ser Met Lys Ile
140     295                 300                 305
142 agt gag gat gat gtt gag ggt atc gga ttc gcc att cca agc aat gac     1974
143 Ser Glu Asp Asp Val Glu Gly Ile Gly Phe Ala Ile Pro Ser Asn Asp
144 310                 315                 320                 325
146 gta aaa ccg att gct gaa gaa ttg ctg tct aaa gga caa att gaa cgt     2022
147 Val Lys Pro Ile Ala Glu Glu Leu Leu Ser Lys Gly Gln Ile Glu Arg
148                 330                 335                 340
150 cca tat atc ggt gtc agc atg ctt gat cta gag caa gtg ccg caa aat     2070
151 Pro Tyr Ile Gly Val Ser Met Leu Asp Leu Glu Gln Val Pro Gln Asn
152             345                 350                 355
154 tac caa gaa ggc aca ctc ggc ctg ttc ggc agc cag ctg aat aaa ggc     2118
155 Tyr Gln Glu Gly Thr Leu Gly Leu Phe Gly Ser Gln Leu Asn Lys Gly
156         360                 365                 370
158 gtt tac atc cgt gag gtc gct tca ggc tct cct gct gaa aag gcc gga     2166
159 Val Tyr Ile Arg Glu Val Ala Ser Gly Ser Pro Ala Glu Lys Ala Gly
160     375                 380                 385
162 tta aaa gcg gag gat att atc atc ggc cta aaa ggt aaa gaa att gat     2214
163 Leu Lys Ala Glu Asp Ile Ile Ile Gly Leu Lys Gly Lys Glu Ile Asp
164 390                 395                 400                 405
166 aca ggc agt gaa ttg cgc aat atc tta tat aaa gac gca aag atc ggt     2262
167 Thr Gly Ser Glu Leu Arg Asn Ile Leu Tyr Lys Asp Ala Lys Ile Gly
168                 410                 415                 420
170 gat acc gtt gaa gtg aaa att ctc cga aac ggc aaa gaa atg acg aaa     2310
171 Asp Thr Val Glu Val Lys Ile Leu Arg Asn Gly Lys Glu Met Thr Lys
172             425                 430                 435
174 aaa att aaa ctg gat caa aaa gaa gag aaa act tcg taa                 2349
175 Lys Ile Lys Leu Asp Gln Lys Glu Glu Lys Thr Ser
176         440                 445
179 <210> SEQ ID NO: 2
180 <211> LENGTH: 449
181 <212> TYPE: PRT
182 <213> ORGANISM: Bacillus subtilis
184 <400> SEQUENCE: 2
186 Met Asp Asn Tyr Arg Asp Glu Asn Arg Thr Lys Gly Asn Glu Asn Glu
187 1               5                   10                  15
190 Val Phe Leu Thr Lys Glu Asn Asp Gln Ser Ala Ser Tyr Ser Ala Arg
191             20                  25                  30
194 Asn Val Ile His Asp Gln Glu Lys Lys Lys Arg Gly Phe Gly Trp Phe
195         35                  40                  45
198 Arg Pro Leu Leu Gly Gly Val Ile Gly Gly Ser Leu Ala Leu Gly Ile
199     50                  55                  60
202 Tyr Thr Phe Thr Pro Leu Gly Asn His Asp Ser Gln Asp Thr Ala Lys
203 65                  70                  75                  80
206 Gln Ser Ser Ser Gln Gln Gln Thr Gln Ser Val Thr Ala Thr Ser Thr
207                 85                  90                  95
210 Ser Ser Glu Ser Lys Lys Ser Ser Ser Ser Ser Ser Ala Phe Lys Ser
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RAW SEQUENCE LISTING DATE: 04/13/2006
PATENT APPLICATION: US/10/574,625 TIME: 20:17:08

Input Set : A:\PTO.txt
Output Set: N:\CRF4\04132006\J574625.raw

```
211                 100                 105                 110
214 Glu Asp Ser Ser Lys Ile Ser Asp Met Val Glu Asp Leu Ser Pro Ala
215         115                 120                 125
218 Ile Val Gly Ile Thr Asn Leu Gln Ala Gln Ser Asn Ser Ser Leu Phe
219     130                 135                 140
222 Gly Ser Ser Ser Ser Asp Ser Ser Glu Asp Thr Glu Ser Gly Ser Gly
223 145                 150                 155                 160
226 Ser Gly Val Ile Phe Lys Lys Glu Asn Gly Lys Ala Tyr Ile Ile Thr
227                 165                 170                 175
230 Asn Asn His Val Val Glu Gly Ala Ser Ser Leu Lys Val Ser Leu Tyr
231             180                 185                 190
234 Asp Gly Thr Glu Val Thr Ala Lys Leu Val Gly Ser Asp Ser Leu Thr
235         195                 200                 205
238 Asp Leu Ala Val Leu Gln Ile Ser Asp Asp His Val Thr Lys Val Ala
239     210                 215                 220
242 Asn Phe Gly Asp Ser Ser Asp Leu Arg Thr Gly Glu Thr Val Ile Ala
243 225                 230                 235                 240
246 Ile Gly Asp Pro Leu Gly Lys Asp Leu Ser Arg Thr Val Thr Gln Gly
247                 245                 250                 255
250 Ile Val Ser Gly Val Asp Arg Thr Val Ser Met Ser Thr Ser Ala Gly
251             260                 265                 270
254 Glu Thr Ser Ile Asn Val Ile Gln Thr Asp Ala Ala Ile Asn Pro Gly
255         275                 280                 285
258 Asn Ser Gly Gly Pro Leu Leu Asn Thr Asp Gly Lys Ile Val Gly Ile
259     290                 295                 300
262 Asn Ser Met Lys Ile Ser Glu Asp Asp Val Glu Gly Ile Gly Phe Ala
263 305                 310                 315                 320
266 Ile Pro Ser Asn Asp Val Lys Pro Ile Ala Glu Glu Leu Leu Ser Lys
267                 325                 330                 335
270 Gly Gln Ile Glu Arg Pro Tyr Ile Gly Val Ser Met Leu Asp Leu Glu
271             340                 345                 350
274 Gln Val Pro Gln Asn Tyr Gln Glu Gly Thr Leu Gly Leu Phe Gly Ser
275         355                 360                 365
278 Gln Leu Asn Lys Gly Val Tyr Ile Arg Glu Val Ala Ser Gly Ser Pro
279     370                 375                 380
282 Ala Glu Lys Ala Gly Leu Lys Ala Glu Asp Ile Ile Ile Gly Leu Lys
283 385                 390                 395                 400
286 Gly Lys Glu Ile Asp Thr Gly Ser Glu Leu Arg Asn Ile Leu Tyr Lys
287                 405                 410                 415
290 Asp Ala Lys Ile Gly Asp Thr Val Glu Val Lys Ile Leu Arg Asn Gly
291             420                 425                 430
294 Lys Glu Met Thr Lys Lys Ile Lys Leu Asp Gln Lys Glu Glu Lys Thr
295         435                 440                 445
298 Ser
302 <210> SEQ ID NO: 3
303 <211> LENGTH: 8
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial
307 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 04/13/2006
PATENT APPLICATION: **US/10/574,625** TIME: 20:17:08

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF4\04132006\J574625.raw**

```
     308 <223> OTHER INFORMATION: octameric motif
     311 <220> FEATURE:
W--> 312 <221> NAME/KEY: octameric_motif
     313 <222> LOCATION: (1)..(8)
     315 <400> SEQUENCE: 3
     316 ttttcata                                                          8
     319 <210> SEQ ID NO: 4
     320 <211> LENGTH: 44
     321 <212> TYPE: DNA
     322 <213> ORGANISM: Artificial
     324 <220> FEATURE:
     325 <223> OTHER INFORMATION: Primer
     328 <220> FEATURE:
W--> 329 <221> NAME/KEY: Primer_oth48
     330 <222> LOCATION: (1)..(44)
     332 <400> SEQUENCE: 4
     333 gttcatcgat cgcatcggct aatcagacca cttcgggtga aggc                   44
     336 <210> SEQ ID NO: 5
     337 <211> LENGTH: 50
     338 <212> TYPE: DNA
     339 <213> ORGANISM: Artificial
     341 <220> FEATURE:
     342 <223> OTHER INFORMATION: Primer
     345 <220> FEATURE:
W--> 346 <221> NAME/KEY: Primer_oth50
     347 <222> LOCATION: (1)..(50)
     349 <400> SEQUENCE: 5
     350 ggagcggatt gaacatgcga ttaaatatcc ttcgagacat tttcgatcgc             50
     353 <210> SEQ ID NO: 6
     354 <211> LENGTH: 21
     355 <212> TYPE: DNA
     356 <213> ORGANISM: Artificial
     358 <220> FEATURE:
     359 <223> OTHER INFORMATION: Primer
     362 <220> FEATURE:
W--> 363 <221> NAME/KEY: Primer_260558
     364 <222> LOCATION: (1)..(21)
     366 <400> SEQUENCE: 6
     367 gagtatcgcc agtaaggggc g                                           21
     370 <210> SEQ ID NO: 7
     371 <211> LENGTH: 44
     372 <212> TYPE: DNA
     373 <213> ORGANISM: Artificial
     375 <220> FEATURE:
     376 <223> OTHER INFORMATION: Primer
     378 <400> SEQUENCE: 7
     379 gccttcaccc gaagtggtct gattagccga tgcgatcgat gaac                   44
     382 <210> SEQ ID NO: 8
     383 <211> LENGTH: 23
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/13/2006
PATENT APPLICATION: **US/10/574,625** TIME: 20:17:09

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF4\04132006\J574625.raw**

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11

VERIFICATION SUMMARY DATE: 04/13/2006
PATENT APPLICATION: **US/10/574,625** TIME: 20:17:09

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF4\04132006\J574625.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:21 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:312 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:329 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:346 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:363 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:392 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:409 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:426 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:443 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11

Raw Sequence Listing before editing (for reference only)

IFWP

RAW SEQUENCE LISTING DATE: 04/13/2006
PATENT APPLICATION: **US/10/574,625** TIME: 10:17:33

Input Set : **A:\01-SQ Listing-04 Apr 2006.txt**
Output Set: **N:\CRF4\04132006\J574625.raw**

3 <110> APPLICANT: Hoff, Tine
5 <120> TITLE OF INVENTION: A Method of Screening For Protein Secreting Recombinant Host
6 Cells
8 <130> FILE REFERENCE: 10355.204-US
C--> 10 **<140> CURRENT APPLICATION NUMBER: US/10/574,625**
C--> 10 **<141> CURRENT FILING DATE: 2006-04-04**
10 <160> NUMBER OF SEQ ID NOS: 11
12 <170> SOFTWARE: PatentIn version 3.3

ERRORED SEQUENCES

433 <210> SEQ ID NO: 11
434 <211> LENGTH: 26
435 <212> TYPE: DNA
436 <213> ORGANISM: Artificial
438 <220> FEATURE:
439 <223> OTHER INFORMATION: Primer
442 <220> FEATURE:
W--> 443 **<221> NAME/KEY: Primer_YKDAP1**
444 <222> LOCATION: (1)..(26)
446 <400> SEQUENCE: 11
447 gcggatccga tgatgaatga cattgc 26
E--> 453 8

Does Not Comply
Corrected Diskette Needed

VERIFICATION SUMMARY DATE: 04/13/2006
PATENT APPLICATION: **US/10/574,625** TIME: 10:17:34

Input Set : **A:\01-SQ Listing-04 Apr 2006.txt**
Output Set: **N:\CRF4\04132006\J574625.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:21 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:312 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:329 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:346 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:363 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:392 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:409 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:426 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:443 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:453 M:254 E: No. of Bases conflict, this line has no nucleotides.